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Revised AE Adult Echocardiography Course

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ARDMS AE-Adult-Echocardiography Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Instrumentation, Optimization, and Contrast: This section of the exam measures skills of adult echocardiography technicians related to use and optimization of ultrasound instrumentation and the application of contrast agents. Candidates should recognize imaging artifacts, utilize non-imaging transducers, and adjust ultrasound console settings for optimal imaging and Doppler recordings. Knowledge of harmonic imaging, principles of contrast agents, and the safe and effective use of saline and echo-enhancing contrast agents is essential. Candidates must also be able to optimize images when using contrast agents to ensure diagnostic quality.

Topic 2	<ul style="list-style-type: none"> • Measurement Techniques, Maneuvers, and Sonographic Views: This section of the exam measures skills of adult echocardiography technicians in performing accurate cardiac measurements, conducting provocative maneuvers, and obtaining optimized sonographic imaging views. It involves applying 2D, 3D, M-mode, and Doppler techniques to measure heart valves, chambers, and vessels, including the aortic valve, mitral valve, left and right ventricles, atria, pulmonary artery, and shunt ratios. Candidates must instruct patients in maneuvers such as Valsalva, cough, sniff, and squat. They should also be proficient in acquiring standard echocardiographic views including apical, parasternal, subcostal, and suprasternal notch views.
Topic 3	<ul style="list-style-type: none"> • Clinical Care and Safety: This section of the exam measures skills of adult echocardiography technicians in applying clinical care principles and safety protocols. It includes evaluating patient history and external data, preparing patients including fasting state and intravenous line management, proper patient positioning, EKG lead placement, blood pressure measurement, and ergonomic techniques. Candidates are expected to identify critical echocardiographic findings, know contraindications for procedures, and be able to respond and manage medical emergencies that may arise during echocardiographic exams.
Topic 4	<ul style="list-style-type: none"> • Anatomy and Physiology: This section of the exam measures skills of adult echocardiography technicians and covers knowledge and abilities related to normal cardiac anatomy and physiology. It includes assessing great vessels like the aorta and pulmonary arteries, recognizing anatomic variants of the heart, and evaluating cardiac chambers, pericardium, valve structures, and vessels of arterial and venous return. Candidates must document normal systolic and diastolic function, normal valve function and measurements, the phases of the cardiac cycle, normal Doppler changes with respiration, and appearance of arterial and venous waveforms. This also involves assessing the normal hemodynamic response to stress testing and maneuvers such as Valsalva, respiratory, handgrip, and postural changes.
Topic 5	<ul style="list-style-type: none"> • Pathology: This section of the exam measures skills of adult echocardiography technicians and focuses on identifying and evaluating abnormal physiology and perfusion and postoperative conditions. It includes assessment of ventricular aneurysms, aortic and valve abnormalities, arrhythmias, cardiac masses, diastolic dysfunction, endocarditis, ischemic diseases, cardiomyopathies, congenital anomalies, and postoperative valve repair or replacement and intracardiac devices. Candidates must demonstrate ability to recognize abnormal Doppler signals, EKG changes, wall motion abnormalities, and a wide range of cardiac pathologies including pulmonary hypertension and septal defects.

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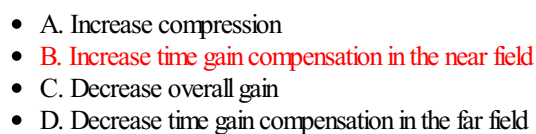
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ARDMS AE Adult Echocardiography Examination Sample Questions (Q111-Q116):

NEW QUESTION # 111

Which adjustment should be made to optimize this video?



Explanation:

This principle is outlined in the "Textbook of Clinical Echocardiography, 6e", Chapter on Image Optimization and Technical Settings#20:70-75Textbook of Clinical Echocardiography#.

Which of the following is a feature of constrictive pericarditis?

- A. Mitral inflow pattern has a large E-wave and a small A-wave without respiratory changes
- **B. Interventricular septal bounce**
- C. Dilated inferior vena cava with inspiratory collapse during sniff test
- D. Normal hepatic vein size

Explanation:

The inferior vena cava (IVC) is usually dilated and shows no inspiratory collapse (i.e., no normal collapse with sniff test) because of elevated right atrial pressure and impaired venous return.

Therefore:

- * Option A is incorrect because mitral inflow in constrictive pericarditis shows significant respiratory variation, not absence of it.
- * Option B is incorrect because the hepatic vein is typically dilated with abnormal flow patterns, not normal size.
- * Option C is incorrect because the IVC is dilated and does NOT collapse normally with inspiration/sniff in constrictive pericarditis.
- * Option D is correct because the interventricular septal bounce is a classic feature reflecting ventricular interdependence and constrictive physiology.

These findings are summarized in the "Textbook of Clinical Echocardiography, 6e" (Catherine M. Otto, MD), Chapter 10 (Pericardial Disease), pages 280-285, with key illustrations showing septal bounce, Doppler inflow variations, hepatic vein flow patterns, and IVC findings in constrictive pericarditis. The "Mayo Clinic criteria" for echocardiographic diagnosis also emphasize ventricular septal shift as a critical feature, often combined with tissue Doppler annular velocity patterns and hepatic vein diastolic flow reversal for high diagnostic accuracy.

NEW QUESTION # 113

Which color Doppler adjustment would optimize visualization of flow across the interatrial septum?

- A. Increased color sector size
- B. Decreased color gain
- C. Increased wall filter
- **D. Decreased color scale**

Answer: D

Explanation:

Decreasing the color scale (velocity range) improves the sensitivity of color Doppler for detecting low-velocity flow, such as shunting across the interatrial septum (e.g., patent foramen ovale). A lower scale allows subtle flow jets to be visualized.

Decreasing color gain would reduce sensitivity, increasing color sector size can degrade frame rate and resolution, and increasing the wall filter may remove low-velocity signals.

This optimization is discussed in the "Textbook of Clinical Echocardiography, 6e", Chapter on Color Doppler Imaging Techniques#20:100-105Textbook of Clinical Echocardiography#.

NEW QUESTION # 114

Which technique best determines a trileaflet aortic valve from a bicuspid aortic valve?

- A. Use continuous wave Doppler to demonstrate normal flow velocity
- B. Visualize all three leaflets simultaneously during systole
- **C. Visualize all three leaflets simultaneously during diastole**
- D. Use pulsed wave Doppler to demonstrate normal flow velocity

Answer: C

Explanation:

The most reliable technique to distinguish a trileaflet aortic valve from a bicuspid valve is to visualize all three leaflets simultaneously during diastole when the valve is closed. During diastole, the aortic valve leaflets coapt, and the three cusps form a characteristic "Y-shaped" or "Mercedes-Benz" sign on short-axis echocardiographic views, clearly demonstrating the number of leaflets.

Visualization during systole is less reliable because the valve is open, and the leaflets are moving rapidly.

Doppler techniques (pulsed or continuous wave) assess flow velocities but do not definitively determine leaflet number, only stenosis severity.

This approach is well documented in adult echocardiography textbooks and ASE valvular imaging guidelines, which emphasize the diastolic short-axis view for valve morphology assessment#16:Textbook of Clinical Echocardiography, 6ep.190-195##12:ASE Valve Imaging Guidelinesp.180-185#.

NEW QUESTION # 115

Which condition causes both tricuspid stenosis and tricuspid regurgitation?

- A. Cor pulmonale
- B. Pulmonary hypertension
- **C. Carcinoid heart disease**

- D. Amyloid heart disease

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Carcinoid heart disease results from the deposition of fibrous plaques on the endocardium of right-sided heart valves, predominantly affecting the tricuspid and pulmonary valves. This leads to both tricuspid stenosis (valve leaflet thickening and immobility causing obstruction) and tricuspid regurgitation (incomplete coaptation due to leaflet retraction).

Pulmonary hypertension and cor pulmonale cause primarily functional tricuspid regurgitation without stenosis. Amyloid heart disease can cause restrictive cardiomyopathy but rarely causes combined tricuspid valve stenosis and regurgitation.

These pathological changes are detailed in the "Textbook of Clinical Echocardiography, 6e", Chapter on Carcinoid Heart Disease and Right Heart Valve Disease#20:335-340Textbook of Clinical Echocardiography#.

NEW QUESTION # 116

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